

IN THE CLAIMS

Please cancel claims 35, 36, 38, 39, 42 and 43, and amend claims 32 and 34 as follows:

1-31. (Canceled)

32. (Currently amended) An isolated nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of:

(a) a nucleic acid sequence encoding a protein consisting of SEQ ID NO:4, SEQ ID NO:7 or SEQ ID NO:12; and

(b) a nucleic acid sequence ~~complementary~~ fully complementary to the nucleic acid sequence of (a).

33. (Currently amended) The isolated nucleic acid molecule of claim 32, wherein said nucleic acid sequence is selected from the group consisting of ~~SEQ ID NO:1, SEQ ID NO:2,~~ SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:11 and SEQ ID NO:13.

34. (Currently amended) An isolated nucleic acid molecule consisting of a nucleic acid sequence selected from the group consisting of:

(a) a nucleic acid sequence encoding a protein consisting of SEQ ID NO:4, SEQ ID NO:7 or SEQ ID NO:12; and

(b) a nucleic acid sequence ~~complementary~~ fully complementary to the nucleic acid sequence of (a).

35-36. (Canceled)

37. (Currently amended) The isolated nucleic acid molecule of claim 34, wherein said nucleic acid sequence is selected from the group consisting of ~~SEQ ID NO:1, SEQ ID NO:2,~~ SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:11 and SEQ ID NO:13.

38-39. (Canceled)

40. (Previously presented) An isolated protein comprising an amino acid sequence selected from the group consisting of SEQ ID NO:4, SEQ ID NO:7 and SEQ ID NO:12.

41. (Previously presented) An isolated protein consisting of an amino acid sequence selected from the group consisting of SEQ ID NO:4, SEQ ID NO:7 and SEQ ID NO:12.

42-43. (Canceled)

44. (Currently amended) A method to detect an inhibitor of octopamine receptor activity, said method comprising:

(a) contacting a an isolated protein comprising SEQ ID NO:12 with octopamine and a putative inhibitory compound under conditions in which, in the absence of said compound, said octopamine will bind to said isolated protein ~~has octopamine receptor activity~~; and

(b) determining if said octopamine binds to said isolated protein ~~has octopamine receptor activity~~.